

Scientific Services

**Consultant Microbiologists
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K121384-5a

25th July 2020

LABORATORY REPORT

SOURCE: Wiper Supply Services

ITEMS: Germ-Buster (expelled fluid as supplied)

TESTS: BSEN1276:2019
Concentration: Neat
Temperature: 20°C
Contact time: 5 minutes
Interfering substance: Bovine Albumin 3.0g/l (dirty)
Storage conditions: Room temperature, out of direct sunlight
Active substances: Not Given
Test Date: 22nd July 2020

Recovery: Dilution neutralisation, using:-

Tryptone Soya Broth containing Tween 80 100ml/l,
Lecithin 30g/l, Sodium thiosulphate 5g/l, L-histidine
1g/l, L-cystine 1g/l

Test organisms:	Staphylococcus aureus	ATCC 6538
	Escherichia coli	ATCC 10536
	Pseudomonas aeruginosa	ATCC 15442
	Enterococcus hirae	ATCC 10541

SUMMARY & CONCLUSIONS:

K121384-5a

Organism	Control	Germ-Buster (expelled fluid as supplied)	Log Reduction
Staphylococcus aureus ATCC 6538	2.76x10 E7	<10 (<140)	>6.44 (>5.29)
Escherichia coli ATCC 10536	2.55x10 E7	<10 (<140)	>6.41 (>5.26)
Enterococcus hirae ATCC 10541	2.28x10 E7	<10 (<140)	>6.36 (>5.21)
Pseudomonas aeruginosa ATCC 15442	2.90x10 E7	<10 (<140)	>6.46 (>5.31)

All test results below 140 (1.4×10^2) are required to be reported as <140

The sample complies with the criteria of BSEN1276:2019 (log 5 reduction) after 5 minutes contact, against all four organisms, under the test conditions stated.

KMSelf

K.M.Self, M.B.I.C.Sc.,M.R.S.P.H.,A.M.S.B.

Proprietor: K M Self, M.R.S.P.H.,M.B.I.C.Sc.,A.M.S.B., Member of the Society for General Microbiology,
Participating in the National Agricultural Check Sample Service

Detailed Results K121384-5a Germ-Buster

Staphylococcus aureus ATCC 6538

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁶	268	284	Weighted Mean = 2.76x10 E8	log = 8.44
10 ⁻⁷	25	31	No = N/10 = 2.76x10 E7	log = 7.44

Test (Na)

V _{C1}	V _{C2}	mean		
<1	<1	<1	Na = mean x10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>6.44 (>5.29)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
67	74	70.5

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
66	70	68

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
62	70	66

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
61	66	63.5

Detailed Results K121384-5a Germ-Buster

Escherichia coli ATCC 10536

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁶	248	262	Weighted Mean = 2.55x10 E8	log = 8.41
10 ⁻⁷	27	24	No = N/10 = 2.55x10 E7	log = 7.41

Test (Na)

V _{C1}	V _{C2}	mean		
<1	<1	<1	Na = mean x10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>6.41 (>5.26)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
60	65	62.5

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
63	60	61.5

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
57	60	58.5

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
54	60	57

Detailed Results K121384-5a Germ-Buster

Enterococcus hirae ATCC 10541

Test Suspension (N + No)

N	V _{C1}	V _{C2}		
10 ⁻⁶	236	220	Weighted Mean = 2.28x10 E8	log = 8.36
10 ⁻⁷	24	21	No = N/10 = 2.28x10 E7	log = 7.36

Test (Na)

V _{C1}	V _{C2}	mean		
<1	<1	<1	Na = mean x10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>6.36 (>5.21)

Validation & Controls

Validation Suspension (Nvo)

V _{C1}	V _{C2}	mean
54	60	57

Experimental Conditions Control (A)

V _{C1}	V _{C2}	mean
55	62	58.5

Neutraliser Toxicity Control (B)

V _{C1}	V _{C2}	mean
50	57	53.5

Dilution Neutralisation Control (C)

V _{C1}	V _{C2}	mean
48	58	53

Detailed Results K121384-5a Germ-Buster

Pseudomonas aeruginosa ATCC 15442

Test Suspension (N + No)

N	Vc1	Vc2		
10 ⁻⁶	278	300	Weighted Mean = 2.90x10 E8	log = 8.46
10 ⁻⁷	28	33	No = N/10 = 2.90x10 E7	log = 7.46

Test (Na)

Vc1	Vc2	mean		
<1	<1	<1	Na = mean x10 = <10 (<140)	log = <1 (<2.15)

Log Reduction

>6.46 (>5.31)

Validation & Controls

Validation Suspension (Nvo)

Vc1	Vc2	mean
74	70	72

Experimental Conditions Control (A)

Vc1	Vc2	mean
76	66	71

Neutraliser Toxicity Control (B)

Vc1	Vc2	mean
70	64	67

Dilution Neutralisation Control (C)

Vc1	Vc2	mean
68	70	69